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(54) CIPHER COMMUNICATION SYSTEM

(57)Abstract:

PURPOSE: To eliminate the need of altering existing application and hardwares and to improve cost effectiveness by sharing a common key among a client, a cipher and a cipher gateway and performing cipher communication using the session key.

CONSTITUTION: The client 3 establishes a session with a cipher gateway device 4 before establishing the session with a server 5 and requests the cipher communication to the device 4. When a communication request is detected, the device 4 receives the session key ciphered by the respective cryptographic keys of the client 3 and the device 4 from a key delivery center 1. Then, the device 4 transmits the session key received from the center 1 to the client 3 and the client 3 receives the session key. The client 3 deciphers the session key by using the cryptographic key of its own and obtains the session key. Thus, the same session key is provided in the client 3 and the device 4. Then, cipher synchronization establishment parts 33 and 34 establish cipher synchronization between the client 3 and the device 4.
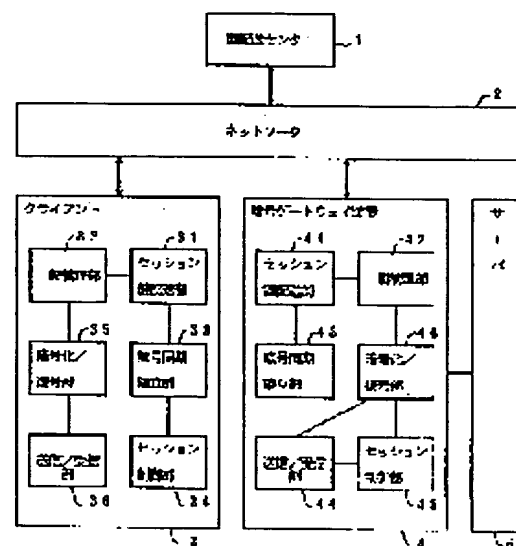
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